

ABSTRACT OF THE DISCLOSURE

A semi-fragile image tamper detection system and method based on thumbnail hiding and which signifies the image areas in which tampering has occurred, is provided. A thumbnail is defined as a low-resolution version of an entire image or the significant features of an entire image. Thumbnail hiding is chosen to be resilient to effects of both image compression and low levels of transmission channel noise. The thumbnail computation and embedding techniques are chosen such that the resultant marked image corresponds in size and dynamic range to the original image.